

Gunter, Jason

From: James, Kevin <kjames@doerun.com>
Sent: Friday, January 09, 2015 5:47 PM
To: Gunter, Jason
Cc: Yingling, Mark; Neaville, Chris; Montgomery, Michael; 'martin.kator@dnr.mo.gov'; 'brandon.wiles@dnr.mo.gov'; 'Ty Morris (TMorris@barr.com)'
Subject: Federal Progress Report - December
Attachments: Federal_ProgressReport_12-14.pdf; 11 - Remediation Air Report - November 2014.pdf; Pb Results October 2014_017.pdf

Categories: Red Category

Jason -

Attached is the December Progress Report for the Federal Site.

Best regards,

Kevin James

Kevin James


Construction Engineering
W: 573.626.2096
C: 573.247.6766

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**THE
DOE RUN
COMPANY**

Remediation Group

Kevin James
Construction Engineering Manager
kjames@doerun.com

January 9, 2015

Mr. Jason Gunter
Remedial Project Manager
U.S. Environmental Protection Agency
Region 7 - Superfund Branch
11201 Renner Blvd.
Lenexa, KS 66219

Re: The Doe Run Company – Federal Mine Tailings Site Monthly Progress Report

Dear Mr. Gunter:

As required by Article XVII, Paragraph 73 of the Administrative Order on Consent (Docket No.VII-97-F-0009) for the referenced project and on behalf of The Doe Run Company, the progress report for the period December 1, 2014 through December 31, 2014 is enclosed. If you have any questions or comments, please call me at 573-626-2096.

Sincerely,



Kevin James
Construction Engineering Manager

Enclosure

c: Mark Yingling – TDRC (electronic only)
Chris Neaville – TDRC (electronic only)
Michael Montgomery – TDRC (electronic only)
Martin Kator – MDNR DSP
Brandon Wiles – MDNR HWP
Ty Morris – Barr Engineering

35 Iron County Rd. #1, Viburnum, MO 65566
Telephone: (573) 626-2096

Federal Mine Tailings Site
Park Hills, Missouri
Monthly Progress Report
Period: December 1, 2014 – December 31, 2014

1. Actions Performed or Completed This Period:

- a. Work continued on the development of the Post-Removal Site Control Plan for the site.
- b. Work continued on the development of the Removal Action Report.

2. Data and Results Received This Period:

- a. Attached are the lead monitoring results for the Missouri Department of Natural Resources – Department of State Parks (MDNR-DSP) air monitor located near the Off-Road Vehicle (ORV) Riding Area for October 2014. Neither The Doe Run Company nor Barr Engineering Co. were involved with siting this monitor, collecting the samples, processing the samples, evaluating the data, or verifying the accuracy of the data.
- b. During this period, the ambient air monitoring samples for November were processed and the Ambient Air Monitoring Report for November 2014 was completed. A copy of the Ambient Air Monitoring Report for October is attached.

3. Planned Activities for Next Period:

- a. Continue developing the Post-Removal Site Control Plan for the site.
- b. Continue developing the Removal Action Report

4. Changes in Personnel:

- a. None.

5. Issues or Problems Encountered and the Resolution:

- a. None.

Monthly Ambient Air Monitoring Report

The Doe Run Company
Old Lead Belt Sites:
Federal, Rivermines, National, and Leadwood

November-2014



SUITE 300
1801 PARK 270 DRIVE
ST. LOUIS, MO 63146

Federal Site

Sample Results for November-2014

Sample Date	St. Joe (Ballfields)		Big River#4		Water Treatment Plant	
	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
11/3/14	30	0.034	19	0.007	17	0.007
11/4/14	7	0.007	3	0.000	4	0.007
11/5/14	6	0.007	0	0.000	8	0.013
11/6/14	17	0.007	invalid	invalid	12	0.020
11/7/14	10	0.020	10	0.007	11	0.007
11/10/14	67	0.125	23	0.013	24	0.028
11/11/14	invalid	invalid	10	0.000	12	0.013
11/12/14	18	0.000	23	0.013	17	0.007
11/13/14	17	0.007	16	0.006	9	0.007
11/14/14	18	0.006	19	0.013	40	0.006
11/17/14	5	0.007	8	0.000	invalid	invalid
11/18/14	11	0.013	11	0.006	16	0.026
11/19/14	17	0.007	18	0.013	24	0.073
11/20/14	22	0.013	30	0.013	21	0.039
11/21/14	13	0.007	20	0.006	invalid	invalid
11/24/14	6	0.007	6	0.000	5	0.007
11/25/14	7	0.007	9	0.000	8	0.013
11/26/14	5	0.000	0	0.000	1	0.000

Monthly Avg. TSP	16	13	14
Monthly Avg. Pb	0.016	0.006	0.017
Oct-14	0.029	0.008	0.034
Sep-14	0.009	0.013	0.017
Rolling 3-Month	0.018	0.009	0.023

Three month rolling average must be less than 0.15 ug/m3

NOTES:

St. Joe (Ball fields) 11/11, <23hr run time - motor failed.

Big River #4, 11/6, <23hr run time

ERM #3 (WTP), 11/17 - motor failed, 11/21, <23hr run time

Sample Date	Big River QA	
	TSP ug/m3	Lead ug/m3
11/4/14	0	0.000
11/6/14	11	0.007
11/11/14	7	0.000
11/13/14	11	0.006
11/18/14	9	0.006
11/20/14	20	0.013
11/25/14	11	0.000

Rivermines

Sample Results for **November-2014**

Sample Date	Big River #4		Rivermines South #1		Rivermines North #2		Rivermines East #3	
	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
11/3/14	19	0.007	33	0.020	23	0.103	17	0.007
11/4/14	3	0.000	3	0.007	3	0.020	4	0.007
11/5/14	0	0.000	8	0.006	4	0.007	8	0.013
11/6/14	invalid	invalid	25	0.032	7	0.034	12	0.020
11/7/14	10	0.007	16	0.006	12	0.007	11	0.007
11/10/14	23	0.013	30	0.020	40	0.418	24	0.028
11/11/14	10	0.000	37	0.139	11	0.014	12	0.013
11/12/14	23	0.013	28	0.064	15	0.007	17	0.007
11/13/14	16	0.006	27	0.065	10	0.007	9	0.007
11/14/14	19	0.013	54	0.012	42	0.006	40	0.006
11/17/14	8	0.000	10	0.007	6	0.000	invalid	invalid
11/18/14	11	0.006	18	0.006	10	0.026	16	0.026
11/19/14	18	0.013	28	0.026	13	0.007	24	0.073
11/20/14	30	0.013	37	0.058	22	0.007	21	0.039
11/21/14	20	0.006	16	0.006	13	0.007	invalid	invalid
11/24/14	6	0.000	5	0.007	2	0.000	5	0.007
11/25/14	9	0.000	11	0.013	2	0.000	8	0.013
11/26/14	0	0.000	2	0.000	0	0.020	1	0.000

Monthly Avg. TSP	13	21	13	14
Monthly Avg. Pb	0.006	0.028	0.038	0.017
Oct-14	0.008	0.058	0.030	0.034
Sep-14	0.013	0.051	0.032	0.017
Rolling 3-Month	0.009	0.046	0.033	0.023

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Big River #4, 11/6, <23hr run time

ERM #3 (WTP), 11/17 - motor failed, 11/21, <23hr run time

Sample Date	Big River QA	
	TSP ug/m3	Lead ug/m3
11/4/14	0	0.000
11/6/14	11	0.007
11/11/14	7	0.000
11/13/14	11	0.006
11/18/14	9	0.006
11/20/14	20	0.013
11/25/14	11	0.000

National Site

Sample Results for **November-2014**

	Big River #4		Ozark #1		Soccer Park #2		Water Treatment Plant	
Sample Date	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
11/3/14	19	0.007	21	0.014	22	0.014	17	0.007
11/4/14	3	0.000	10	0.020	2	0.007	4	0.007
11/5/14	0	0.000	10	0.007	12	0.007	8	0.013
11/6/14	invalid	invalid	21	0.007	18	0.007	12	0.020
11/7/14	10	0.007	14	0.007	18	0.007	11	0.007
11/10/14	23	0.013	41	0.041	65	0.076	24	0.028
11/11/14	10	0.000	15	0.000	14	0.007	12	0.013
11/12/14	23	0.013	30	0.006	20	0.007	17	0.007
11/13/14	16	0.006	20	0.006	20	0.006	9	0.007
11/14/14	19	0.013	28	0.006	46	0.013	40	0.006
11/17/14	8	0.000	2	0.000	12	0.000	invalid	invalid
11/18/14	11	0.006	22	0.013	14	0.013	16	0.026
11/19/14	18	0.013	24	0.007	24	0.007	24	0.073
11/20/14	30	0.013	40	0.013	34	0.026	21	0.039
11/21/14	20	0.006	11	0.007	14	0.007	invalid	invalid
11/24/14	6	0.000	9	0.007	11	0.000	5	0.007
11/25/14	9	0.000	invalid	invalid	10	0.007	8	0.013
11/26/14	0	0.000	2	0.000	0	0.000	1	0.000

Monthly Avg. TSP	13	19	20	14
Monthly Avg. Pb	0.006	0.009	0.012	0.017
Oct-14	0.008	0.009	0.012	0.034
Sep-14	0.013	0.009	0.016	0.017
Rolling 3-Month	0.009	0.009	0.013	0.023

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Big River #4, 11/6, <23hr run time

Ozark #1, 11/25, <23hr run time

ERM #3 (WTP), 11/17 - motor failed, 11/21, <23hr run time

	Big River QA	
Sample Date	TSP ug/m3	Lead ug/m3
11/4/14	0	0.000
11/6/14	11	0.007
11/11/14	7	0.000
11/13/14	11	0.006
11/18/14	9	0.006
11/20/14	20	0.013
11/25/14	11	0.000

Leadwood

Sample Results for **November-2014**

Sample Date	Big River #4		Leadwood South #1		Leadwood East #2		Leadwood North #3	
	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3	TSP ug/m3	Lead ug/m3
11/3/14	19	0.007	23	0.007	invalid	invalid	17	0.007
11/4/14	3	0.000	4	0.007	3	0.007	6	0.000
11/5/14	0	0.000	7	0.007	6	0.007	7	0.007
11/6/14	invalid	invalid	9	0.007	11	0.000	10	0.007
11/7/14	10	0.007	13	0.007	12	0.006	11	0.007
11/10/14	23	0.013	26	0.007	26	0.021	23	0.007
11/11/14	10	0.000	17	0.007	8	0.000	10	0.000
11/12/14	23	0.013	19	0.013	21	0.006	14	0.007
11/13/14	16	0.006	18	0.006	13	0.006	11	0.006
11/14/14	19	0.013	39	0.013	19	0.006	19	0.006
11/17/14	8	0.000	13	0.006	6	0.000	13	0.000
11/18/14	11	0.006	15	0.006	10	0.007	12	0.007
11/19/14	18	0.013	22	0.006	13	0.006	18	0.000
11/20/14	30	0.013	21	0.007	22	0.007	29	0.007
11/21/14	20	0.006	15	0.006	16	0.006	12	0.007
11/24/14	6	0.000	5	0.000	0	0.000	6	0.000
11/25/14	9	0.000	7	0.007	3	0.007	4	0.007
11/26/14	0	0.000	0	0.000	0	0.000	1	0.000

Monthly Avg. TSP	13	15	11	12
Monthly Avg. Pb	0.006	0.006	0.005	0.004
Oct-14	0.008	0.012	0.014	0.005
Sep-14	0.013	0.019	0.026	0.006
Rolling 3-Month	0.009	0.013	0.015	0.005

Three month rolling average must be less than 0.15 ug/m3

NOTES:

Big River #4, 11/6, <23hr run time

Leadwood #2 (East), 11/3, <23hr run time, GFI shorted out.

Sample Date	Big River QA	
	TSP ug/m3	Lead ug/m3
11/4/14	0	0.000
11/6/14	11	0.007
11/11/14	7	0.000
11/13/14	11	0.006
11/18/14	9	0.006
11/20/14	20	0.013
11/25/14	11	0.000

Federal Site

Sample Results for **November-2014**

Sample Date	St. Joe (Ballfields) PM10 (ug/m3)	Big River#4 PM10 (ug/m3)	Water Treatment PM10 (ug/m3)
11/1/14	54	3	6
11/4/14	27	13	17
11/7/14	9	11	11
11/10/14	15	10	17
11/13/14	16	10	8
11/16/14	7	17	18
11/19/14	10	11	26
11/22/14	15	29	invalid
11/25/14	4	17	13
11/28/14	14	10	invalid

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	17	13	14
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NOTES:

ERM #3 (Water Treatment), 11/22, <23hr run time - GFI tripped.
ERM #3 (Water Treatment), 11/28, <23hr run time.

Sample Date	Big River QA PM10 (ug/m3)
11/1/14	57
11/7/14	13
11/13/14	15
11/19/14	10
11/25/14	25

Rivermines

Sample Results for **November-2014**

	Big River #4	Rivermines South #1	Rivermines North #2	Rivermines East #3
Sample Date	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)
11/1/14	3	20	14	6
11/4/14	13	10	11	17
11/7/14	11	17	9	11
11/10/14	10	15	10	17
11/13/14	10	11	6	8
11/16/14	17	16	15	18
11/19/14	11	15	11	26
11/22/14	29	12	14	invalid
11/25/14	17	10	2	13
11/28/14	10	9	11	invalid

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	13	14	10	14
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NOTES:

ERM #3 (Water Treatment), 11/22, <23hr run time - GFI tripped.
ERM #3 (Water Treatment), 11/28, <23hr run time.

	Big River QA
Sample Date	PM10 (ug/m3)
11/1/14	57
11/7/14	13
11/13/14	15
11/19/14	10
11/25/14	25

National Site

Sample Results for **November-2014**

Sample Date	Big River #4 PM10 (ug/m3)	Ozark #1 PM10 (ug/m3)	Soccer Park #2 PM10 (ug/m3)	Water Treatment PM10 (ug/m3)
11/1/14	3	21	68	6
11/4/14	13	20	17	17
11/7/14	11	10	13	11
11/10/14	10	10	16	17
11/13/14	10	16	4	8
11/16/14	17	21	5	18
11/19/14	11	14	12	26
11/22/14	29	15	18	invalid
11/25/14	17	8	8	13
11/28/14	10	8	11	invalid

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	13	14	17	14
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NOTES:

ERM #3 (Water Treatment), 11/22, <23hr run time - GFI tripped.

ERM #3 (Water Treatment), 11/28, <23hr run time.

Sample Date	Big River QA PM10 (ug/m3)
11/1/14	57
11/7/14	13
11/13/14	15
11/19/14	10
11/25/14	25

Leadwood

Sample Results for **November-2014**

	Big River #4	Leadwood South #1	Leadwood East #2	Leadwood North #3
Sample Date	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)	PM10 (ug/m3)
11/1/14	3	47	23	73
11/4/14	13	39	123	10
11/7/14	11	17	8	9
11/10/14	10	12	12	11
11/13/14	10	12	9	invalid
11/16/14	17	11	11	invalid
11/19/14	11	11	7	invalid
11/22/14	29	17	10	10
11/25/14	17	4	7	10
11/28/14	10	8	12	8

Compliance with NAAQS is less than 150 ug/m3

Monthly Avg. PM10	13	18	22	19
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NOTES:

Leadwood #3 (North), 11/13 & 11/16, <23hr run time.

Leadwood #3 (North), 11/17, >25hr run time.

	Big River QA
Sample Date	PM10 (ug/m3)
11/1/14	57
11/7/14	13
11/13/14	15
11/19/14	10
11/25/14	25

Air Quality Monitoring Pb results for October 2014

St. Joe State Park

Primary

AQM Pb results for August 2014					AQM Pb results for September 2014						
St. Joe State Park					St. Joe State Park						
Primary					Primary						
Sample Number	Date Collected	Sampler:	Result		Sample Number	Date Collected	Sampler:	Result			
AC32822	8/3/2014	#1 Primary	0.1339	µg/m³	AC35878	9/2/2014	#1 Primary	0.0101	µg/m³		
AC32840	8/6/2014	#1 Primary	0.0176	µg/m³	AC35895	9/5/2014	#1 Primary	0.0158	µg/m³		
AC32858	8/9/2014	#1 Primary	0.1143	µg/m³	AC35913	9/8/2014	#1 Primary	0.0244	µg/m³		
AC32876	8/12/2014	#1 Primary	0.1226	µg/m³	AC35931	9/11/2014	#1 Primary	0.0034	µg/m³		
AC32893	8/15/2014	#1 Primary	0.0377	µg/m³	AC35949	9/14/2014	#1 Primary	0.1061	µg/m³		
AC32907	8/18/2014	#1 Primary	0.0236	µg/m³	AC35965	9/17/2014	#1 Primary	0.0056	µg/m³		
AC32913	8/21/2014	#1 Primary	0.0082	µg/m³	AC35972	9/20/2014	#1 Primary	0.0248	µg/m³		
AC32919	8/24/2014	#1 Primary	0.0794	µg/m³	AC35978	9/23/2014	#1 Primary	0.0463	µg/m³		
AC32925	8/27/2014	#1 Primary	0.0372	µg/m³	AC35984	9/26/2014	#1 Primary	0.0384	µg/m³		
AC32931	8/30/2014	#1 Primary	0.0215	µg/m³	AC35990	9/29/2014	#1 Primary	0.1115	µg/m³		
August Sum	0.596	August Average	0.0596	µg/m³	September Sum	0.3864	September Average	0.03864	µg/m³		
Run Days Scheduled:	10	Actual:	10	August Data Capture Rate	100.000%	Run Days Scheduled:	10	Actual:	10	September Data Capture Rate	100.000%

Sample Number	Date Collected	Site:	Result
AC37418	10/2/2014	St. Joe State Park - #1 Primary	0.0201 µg/m³
AC37436	10/5/2014	St. Joe State Park - #1 Primary	0.0268 µg/m³
AC37454	10/8/2014	St. Joe State Park - #1 Primary	0.0182 µg/m³
AC37472	10/11/2014	St. Joe State Park - #1 Primary	0.0096 µg/m³
AC37487	10/14/2014	St. Joe State Park - #1 Primary	0.0034 µg/m³
AC37494	10/17/2014	St. Joe State Park - #1 Primary	0.0195 µg/m³
AC37500	10/20/2014	St. Joe State Park - #1 Primary	0.0265 µg/m³
AC37506	10/23/2014	St. Joe State Park - #1 Primary	0.0066 µg/m³
AC37512	10/26/2014	St. Joe State Park - #1 Primary	0.0216 µg/m³
AC37517	10/29/2014	St. Joe State Park - #1 Primary	0.0092 µg/m³
October Sum 0.1615	October Average 0.01615	µg/m³ Run Days Scheduled: 10	Actual: 10 October Data Capture Rate 100.000%

Three month rolling average: 0.04 µg/m³

Three Month Data Capture Rate: 100%